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### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	13	5.0	65	24	ABN51999	Mouse spliced tran
2	2	7	2.7	31	AA05006	Group B Streptococ
3	3	7	2.7	41	AA28893	AMG variant constr
4	4	7	2.7	76	19	RAV0151
5	5	7	2.7	76	19	AAT9372
6	6	6	2.3	20	20	Yeast LEU2 gene pr
7	6	6	2.3	20	20	E. coli K12 R2 ant
8	7	6	2.3	21	ABX3842	Human chromosome 1
9	8	6	2.3	21	ABX3272	TFO B14 sequence.
10	9	6	2.3	21	AAF97146	Human gene single
11	10	6	2.3	22	ABQ5263	Cytomegalovirus ta
12	11	6	2.3	23	ABQ5268	Novel G-protein co
13	12	6	2.3	24	ABQ0053	Oligonucleotide ad
14	13	6	2.3	24	ABQ0246	Oligonucleotide ad
15	14	6	2.3	24	ABQ0587	Oligonucleotide ad
16	15	6	2.3	24	ABQ11374	Oligonucleotide ad
17	16	6	2.3	24	ABQ16715	Oligonucleotide ad
18	17	6	2.3	19	AAV53748	Nucleotide sequenc
19	18	6	2.3	25	ABQ6466	Human KTOMIA porti
20	19	6	2.3	25	ABQ64667	Human KTOMIA porti
21	20	6	2.3	24	ABQ64668	Human KTOMIA porti
22	21	6	2.3	25	ABQ64670	Human KTOMIA porti
23	22	6	2.3	25	ABQ64771	Human KTOMIA porti
24	23	6	2.3	25	ABQ64772	Human KTOMIA porti
25	24	6	2.3	25	ABQ64773	Human KTOMIA porti
26	25	6	2.3	25	ABQ13110	Oligonucleotide ad
27	26	6	2.3	25	ABQ13151	Oligonucleotide ad
28	27	6	2.3	25	ABR9524	PCR primer EF-halp
29	28	6	2.3	27	ABR84566	PCR primer 3F used
30	29	6	2.3	27	ABV00582	PCR primer 3F used
31	30	6	2.3	27	ABV16708	Prostatic specific
32	31	6	2.3	27	ABV17129	Homo sapiens argin
33	32	6	2.3	27	AAX77111	Arginase II cDNA c
34	33	6	2.3	27	AAX77111	Human arginase II
35	34	6	2.3	27	AAT17242	PBR122 rapid site
36	35	6	2.3	28	AAT17833	Human IL3 receptor
37	36	6	2.3	28	AAT76178	Human IL3 receptor
38	37	6	2.3	28	AAX5375	Human IL3 receptor
39	38	6	2.3	28	AAX8065	Human IL3 receptor
40	39	6	2.3	28	AAT1941	Human arginase II
41	40	6	2.3	28	AAT33119	Human CYP2B6 PCR P
42	41	6	2.3	28	ABU3116	SAR element PCR P
43	42	6	2.3	30	18	AAV32729
44	43	6	2.3	30	19	AAV32729
45	44	6	2.3	30	21	AAV87994
46	45	6	2.3	30	21	AAV59041
47	46	6	2.3	30	22	AAX17041
48	47	6	2.3	30	22	AAX63104
49	48	6	2.3	30	22	ABG6305
50	49	6	2.3	30	24	AAB94550
51	50	6	2.3	32	14	AAQ47880
52	51	6	2.3	32	21	AAZ45528
53	52	6	2.3	32	24	AKX14781
54	53	6	2.3	33	24	ABQ76947
55	54	6	2.3	34	21	AAX29679
56	55	6	2.3	34	22	AAZ6744
57	56	6	2.3	35	22	AAD16202
58	57	6	2.3	35	22	AAH7591
59	58	6	2.3	38	19	AAV85993
60	59	6	2.3	39	22	AAX0223
61	60	6	2.3	40	17	AAT6924
62	61	6	2.3	40	20	AXX8849
63	62	6	2.3	40	21	AAZ95611
64	63	6	2.3	40	24	ABA98225
65	64	6	2.3	44	15	AAT07349
66	65	6	2.3	45	21	AAT07059
67	66	6	2.3	47	21	AAX67184

Pred. No. is the number of the scores predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

C	69	6	2.3	48	19	AAW41151
C	69	6	2.3	48	20	AAU17705
C	70	6	2.3	49	20	AAU80040
C	71	6	2.3	49	21	AAU8150
C	72	6	2.3	50	20	AAU34204
C	73	6	2.3	50	20	AAU52172
C	74	6	2.3	50	21	AAU78820
C	75	6	2.3	50	22	AAU33846
C	76	6	2.3	50	22	AAU73383
C	77	6	2.3	51	21	AAU76588
C	78	6	2.3	51	21	AAU76589
C	79	6	2.3	51	22	AAU26561
C	80	6	2.3	51	22	AAU25553
B1	6	2.3	51	22	AAU30552	
C	82	6	2.3	51	22	AAU30772
C	83	6	2.3	51	22	AAU32247
C	84	6	2.3	51	22	AAU73182
C	85	6	2.3	51	22	AAU73184
C	86	6	2.3	51	22	AAU7315
C	87	6	2.3	51	22	AAU7340
C	88	6	2.3	51	22	AAU7341
C	89	6	2.3	51	22	AAU74100
C	90	6	2.3	51	22	AAU74101
C	91	6	2.3	51	22	AAU78372
C	92	6	2.3	51	22	AAU78373
C	93	6	2.3	51	22	AAU79116
C	94	6	2.3	51	22	AAU7928
C	95	6	2.3	51	22	AAU83900
C	96	6	2.3	51	22	AAU84048
C	97	6	2.3	52	22	AAU50119
C	98	6	2.3	57	21	AAU52661
C	99	6	2.3	60	10	ABN9080
100	6	2.3	60	24	ABN36373	

## ALIGNMENTS

RESULT 1	ABN50999	ABN50999 standard; DNA; 65 BP.	XX
AC	ABN50999;		CC
XX			CC
DT	15-JUL-2002 (first entry)		CC
DE	Mouse spliced transcript detection oligonucleotide SEQ ID NO:23747.		CC
XX			CC
KW	Human; mouse; rat; splice transcript; detection; RNA transcript;		CC
KW	splice variant; transcriptome; oligonucleotide library; ss.		CC
OS	Mus musculus.		CC
PN	WO200210449-A2.		CC
XX			CC
PD	07-FEB-2002.		CC
XX			CC
PF	20-JUL-2001; 2001WO-1B01903.		CC
XX			CC
PR	28-JUL-2001; 2000US-221607P.		CC
PR	02-MAY-2001; 2001US-287724P.		CC
XX			CC
PA	(COMP-) COMPUGEN INC.		CC
XX			CC
PT	Shoshan A, Wasserman A, Mintz E, Mintz L, Paigler S;		CC
DR	WPI: 2002-257383/30.		CC
XX			CC
PT	New oligonucleotide libraries comprising oligonucleotides which selectively hybridize to mRNAs transcribed from a transcription unit of a genome, useful for detecting tissue-, pathology-, and developmental-tal-specific genes.		CC
XX			CC

Primer CAP1-rib-1 US-09-698-781-3.oli.rng

XX

The present invention describes oligonucleotide libraries for detecting messenger RNAs that populate a (sub-)transcriptome, where the (sub-)transcriptome comprises messenger RNAs transcribed from multiple transcription units that populate a genome. The library comprises several oligonucleotides, each capable of hybridising selectively to a set of messenger RNAs transcribed from a given transcription unit of the genome, which encodes one or more messenger RNA splice variant. The oligonucleotide libraries are useful for detecting mRNAs from a biological sample, in expression profiling studies, in qualitatively or quantitatively characterising the corresponding transcriptome, and in detecting RNA transcripts and splice variants of human or animal transcriptomes. The libraries may also be used as specialised mini libraries to detect transcripts of a sub-transcriptome under a particular biological or pathological state, and so allowing the detection of tissue- and pathology-specific genes such as those genes only expressed in specific tissue under a specific pathological condition; to detect developmental specific genes; and to detect RNA transcripts and splice variants of a transcriptome of a patient suffering from a particular disorder. ABN71753 to ABN50999 represent oligonucleotide sequences from rats, humans and mice, which are used in the exemplification of the present invention.

N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 65 BP; 26 A; 13 C; 15 G; 11 T; 0 other;

Alignment Scores:

QY

52 GlnArgGluLevalAsnLyH1sAsnGluLeuArgarg 64

DB

1 CAAGAGAGATCGTAATAACACATGAGCTGAGGAGA 39

RESULT 2

ABN5095/C

ID AAA05906 standard; DNA; 31 BP.

XX

AC AAA05906;

XX

DT 30-MAY-2000 (first entry)

DE

Group B Streptococcus nucleotide sequence PCR primer #23.

XX

KW Group B Streptococcus; Streptococcus agalactiae; protein antigen; vaccine; screening; immunogen; detection; diagnosis; infection; antibody; affinity; antibacterial; PCR primer; ss.

XX

OS Streptococcus agalactiae.

XX

PN WO200006738-A2.

XX

PD 10-FEB-2000.

XX

PF 27-JUL-1999; 99WO-GB02444.

XX

PR 27-JUL-1998; 98GB-0016335.

PR 19-MAR-1999; 99US-0125103.

XX

PA (MCR-) MICROBIAL TECHNICS LTD.

XX

PT Le Page RWF, Wells JM, Hanniffy SB;

XX

DR WPI: 2000-195299/17.

XX

Example 1; SEQ ID 23747; 47pp; English.

PT New Group B Streptococcus protein, useful as vaccine, for diagnosis of  
 PT Streptococcal infections and for screening of antibodies or affibodies  
 XX  
 PS Example 2; Page 52; 123pp; English.

XX  
 CC AAA05803 to AAA05872 encode proteins, polypeptides and peptides (given  
 CC in AAY91275 to AAY91343) isolated from Group B Streptococcus (GBS), also  
 CC known as *Streptococcus agalactiae*. The GBS polynucleotides and  
 CC polypeptides have antibacterial activity. Immunogenic compositions  
 CC comprising GBS polynucleotides or polypeptides can be used as vaccines  
 CC and for the treatment or prophylaxis of GBS infection. The  
 CC polynucleotides and Polypeptides can also be used in the detection of GBS  
 CC and for screening DNA encoding bacterial cell envelope associated or  
 CC secreted antigens in gram positive bacteria. AAA05873 to AAA05941  
 CC represent primers used in the exemplification of the present invention.

XX Sequence 31 BP; 2 A; 9 C; 7 G; 13 T; 0 other;

XX Sequence 41 BP; 7 A; 11 C; 11 G; 12 T; 0 other;

Alignment Scores:  
 Pred. No.: 98.9 Length: 31  
 Score: 7.00 Matches: 7  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.71% Indels: 0  
 DB: 0

US-09-698-781-3 (1-258) x AAA05906 (1-31)

Qy 78 TrpAsnLysGluAlaAla 84  
 XX ||||||| ||||| ||||| 2  
 Db 22 TGGACAAAGRAAGGCCCA 2

RESULT 3  
 ID AAZ87893  
 AAZ87893 standard; DNA; 41 BP.

AC  
 XX  
 DT 22-MAY-2000 (first entry)

XX DE AMG variant constructing primer Rk3-K352Q.  
 XX Glucoamylase; variant; starch conversion; saccharification; ethanol;  
 KW fuel; beverage; fermentation; citric acid; ascorbic acid; thermostable;  
 XX G2 glucoamylase; fungal; AMG; PCR primer; ss.  
 OS Aspergillus niger.  
 XX WO200004136-A1.  
 PN 27-JAN-2000.  
 PD  
 XX PF 09-JUL-1999; 99WO-DK00392.  
 XX PR 15-JUL-1998; 98DK-000937.  
 PR 17-DEC-1998; 98DK-0001667.  
 PA (NOVO ) NOVO-NORDISK AS.

XX PT Nielsen BR, Svendsen A, Pedersen H, Wind J, Hendriksen HV;  
 PT Frandsen TP;  
 DR WPI; 2000-18241/16.

XX Variant fungal glucoamylases with improved thermostability and  
 PT increased specific activity, useful in saccharification processes -  
 XX Example 3; Page 60; 116pp; English.

XX The invention relates to variant fungal glucoamylases. The variants  
 CC comprise specific mutations in the parent G2 glucoamylase (AMG) sequence  
 CC (AAV7740) from *A. niger* (see AAZ87842 for specific positions of the  
 mutations). The glucoamylase variants are useful in a starch conversion

CC process, especially continuous process which include a continuous  
 CC saccharification process. The variants can be used for producing  
 CC oligosaccharides, specialty syrups, or ethanol for fuel or beverages.  
 CC They can also be used in fermentation processes for producing organic  
 CC compounds such as citric acid, ascorbic acid, lysine and glutamic acid.  
 CC The glucoamylase variants have improved thermostability and/or increased  
 CC specific activity. This is advantageous in industrial saccharification  
 CC processes. The risk of microbial contamination is also reduced when  
 CC carrying the saccharification process at temperatures above 63 pluOC.  
 CC An increased specific activity towards short-chain saccharides such as  
 CC maltose (without reducing the activity toward oligosaccharides) would  
 CC also permit using a lower enzyme dosage and/or shorter process times.  
 CC Sequences AAZ87844-07911 represent PCR primers used to prepare DNA  
 CC fragments carrying the AMG gene. This is used for the construction, by  
 CC PCR shuffling, spiking with DNA oligos, of *A. niger* AMG variants having  
 CC improved thermostability.

XX Sequence 41 BP; 7 A; 11 C; 11 G; 12 T; 0 other;

Alignment Scores:  
 Pred. No.: 128 Length: 41  
 Score: 7.00 Matches: 7  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.71% Indels: 0  
 DB: 21 Gaps: 0

US-09-698-781-3 (1-258) x AAZ87893 (1-41)

Qy 24 ValIAlaGlyLeuLeuProSer 30  
 XX ||||||| ||||| ||||| 24  
 Db 4 GTGCCTGGACTCTTCCANGC 24

RESULT 4  
 ID AA01541/C  
 ID AA01541 standard; DNA; 76 BP.  
 AC  
 XX AA01541;  
 DT 08-JUN-1998 (first entry)

XX DE LEU2 gene PCR primer KO-3'.  
 XX Acylcoenzyme A:cholesterol acyltransferase; ACAT I;  
 KW ACAT related product 1; AcGP-1; ARP-2; sterol esterification;  
 KW inhibitor; atherosclerosis; hyperlipidemia; LEU2 gene; PCR; primer;  
 KW ss.  
 OS Synthetic.  
 XX PN WO9745439-A1.  
 XX PD 04-DEC-1997.  
 XX PR 30-MAY-1997; 97WO-US09460.  
 XX PR 30-MAY-1996; 96US-0657620.  
 XX PA (UCC ) UNIV COLUMBIA NEW YORK.  
 XX PT Sturley SL;  
 XX DR WPI; 1998-032573/03.

XX DNA encoding acylcoenzyme A: cholesterol acyltransferase II or  
 PT PT III - useful to identify inhibitors for treatment of  
 PT atherosclerosis or hyperlipidaemia  
 PS Disclosure; Page 68; 121pp; English.

XX Primers KO-3' and KO-5' (see AA01540) were used in a PCR with LEU2  
 CC gene as template to produce a selectable yeast gene flanked by  
 acyl-coenzyme A:cholesterol acyltransferase II gene sequences



OY 159 Serserlyryeuvally 164  
 ||||||| 1  
 Db 20 AGTCTTATCIGGCGGG 3

RESULT 7  
 ABL43741  
 ID ABL43741 standard; DNA; 20 BP.  
 AC ABL43741:  
 XX DT 11-APR-2002 (first entry)  
 DE Human chromosome 1p36-35 PCR primer SEQ ID NO:785.  
 XX Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis;  
 KW genome; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX PN JP2001311190-A.  
 XX PD 20-NOV-2001.  
 XX PF 12-MAR-2001; 2001JP-0068285.  
 XX PR 10-MAR-2000; 2000JP-006716.  
 XX PA (RIKA ) RIKAGAKU KENKYUSHO.  
 PA (GENO-) GENOTEX YG.  
 DR WPI: 2002-14136/19.  
 XX PT Arraying genome clones -  
 XX PS Claim 4; Page 20; 528PP; Japanese.  
 XX The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having the said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL43741 to ABL4522 represent PCR Primers for human chromosome 1p36-35 DNA, and ABL4323 to ABL4534 represent PCR Primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention.  
 XX Sequence 20 BP; 2 A; 6 C; 4 G; 8 T; 0 other;  
 Alignment Scores:  
 Pred. No.: 638 Length: 20  
 Score: 6.00 Matches: 6  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 24 Gaps: 0

US-09-698-781-3 (1-258) x ABL43741 (1-20)

OY 38 AspProLalaPheThrAla 43  
 ||||||| 1

Db 1 GATCCCTGCCTTACTGCT 18  
 RESULT 8  
 AAX32872/c  
 ID AAX32872 standard; DNA; 21 BP.  
 XX DT 28-JUN-1999 (first entry)  
 DE XX TFO B14 sequence.  
 KW XX Tripleplex-forming oligonucleotide; TFO; promoter region; Pre-S gene; inhibition; hepatitis B virus; HBV adr subtype; DR region; ss.  
 OS XX Synthetic.  
 Hepatitis b virus.  
 PN XX WO920641-A1.  
 XX PD 29-APR-1999.  
 XX PF 19-OCT-1998; 98WO-CN00248.  
 XX PR 21-OCT-1997; 97CN-0106667.  
 XX PA (SHAN-) SHANGHAI INST BIOCHEMISTRY CHINESE ACAD.  
 PT XX Lu C;  
 XX DR WPI: 1999-288270/24.  
 XX PT Triplex-forming oligonucleotides, useful for, e.g. inhibition of hepatitis B virus (HBV)  
 XX PS Disclosure; Page 12; 39pp; Chinese.  
 XX The invention provides triplex-forming oligonucleotides (TFO) and their modified derivatives. TFO B1-B5 (AAX32862-866) can bind with the promoter region of pre-S gene in inhibition of hepatitis B virus (HBV) adr subtype and TFO B1, B2 and B3 (AAX32868-870) can bind with DR region of HBV. The oligonucleotides are useful for inhibition of HBV and as drug in treatment of hepatitis B. Since the length of the oligonucleotides can be suitably increased the stability and specificity of the formed triplex DNA with 2 similar homopoly purine/homopoly pyrimidine fragments are higher. Triplex formation is specifically targeting on the HBV gene expression, DNA replication and reproduction, or to produce (DNA)2:RNA hybrid triplex with target sequence of RNA in stopping RNA reverse transcription, so there is little effect on the human cells. Such oligonucleotides are chemically modified by 3'-terminal monophosphorylation, leading to more significant inhibition due to their higher stability, and the degradation products of the modified oligonucleotides are not toxic to the body.  
 XX Sequence 21 BP; 5 A; 2 C; 14 G; 0 U; 0 other;  
 Alignment Scores:  
 Pred. No.: 668 Length: 21  
 Score: 6.00 Matches: 6  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 20 Gaps: 0

US-09-698-781-3 (1-258) x AAX32872 (1-21)

OY 116 SerSerAlaProSer 121  
 ||||||| 1  
 Db 18 TCCTCGGCCCTCTCT 1

RESULT 9  
 AAF9146/c  
 ID AAF9146 standard; DNA; 21 BP.

XX XX AAF97146:  
 AC XX  
 XX DT 06-JUN-2001 (first entry)  
 DE Human gene single nucleotide polymorphism #1907.  
 XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism; KW pulmonary embolism; paternity test; ds; Homo sapiens.  
 XX OS  
 XX FH Key Variation Location/Qualifiers  
 FT FT repacel11,A  
 FT FT /\*tag= a  
 FT FT /standard\_name= "single nucleotide polymorphism"  
 XX PN WO200118250-A2.  
 XX PD 15-MAR-2001.  
 XX PR 07-SEP-2000; 2000WO-US24503.  
 XX PR 10-SEP-1999; 99US-0153357.  
 PR PR 26-AUG-2000; 2000US-022947.  
 PR PR 16-AUG-2000; 2000US-022974.  
 XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 PA (MILL-) MILLENNT PHARM INC.  
 XX PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;  
 XX DR WPI; 2001-226749/23.  
 XX PR Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis -  
 XX PS Examples; Page 178; 242pp; English.  
 CC The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPs shown in the specification.  
 XX Sequence 21 BP; 8 A; 4 C; 6 G; 3 T; 0 other;  
 SQ Alignment Scores:  
 Pred. No.: 668 Length: 21  
 Score: 6.00 Matches: 6  
 Percent Similarity: 10.00% Conservative: 0  
 Best Local Similarity: 10.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 22 Gaps: 0  
 US-09-698-781-3 (1-258) x AAF97146 (1-21)  
 Oy 115 Mersel-Serfaty Proser 120  
 DB 18 ATGTCATCTGCTCCCTCT 1  
 RESULT 10  
 AAQ52863/C

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ID AAQ52863 standard; RNA; 22 BP.  
 XX AC AAQ52863;  
 XX DT 26-MAY-1994 (first entry)  
 DE Cytomegalovirus target sequence 40.  
 XX RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; hnRNA; picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV; papilloma virus; HCV; Epstein-Barr virus; EBV; TCV; influenza virus; HSV; herpes simplex virus; vector; immune response; antibody; ribozyme; viral RNA; treatment; ss.  
 XX OS Synthetic.  
 XX PN WO9323569-A.  
 XX PD 25-NOV-1993.  
 XX PR 29-APR-1993; 93WO-US04020.  
 XX PR 11-MAY-1992; 92US-0882689.  
 PR PR 14-MAY-1992; 92US-0882712.  
 PR PR 14-MAY-1992; 92US-0882713.  
 PR PR 14-MAY-1992; 92US-0882714.  
 PR PR 14-MAY-1992; 92US-0882823.  
 PR PR 14-MAY-1992; 92US-0882824.  
 PR PR 14-MAY-1992; 92US-0882885.  
 PR PR 14-MAY-1992; 92US-0882886.  
 PR PR 14-MAY-1992; 92US-0882889.  
 PR PR 14-MAY-1992; 92US-0882921.  
 PR PR 14-MAY-1992; 92US-0883823.  
 PR PR 14-MAY-1992; 92US-0883849.  
 PR PR 14-MAY-1992; 92US-0884073.  
 PR PR 14-MAY-1992; 92US-0884074.  
 PR PR 14-MAY-1992; 92US-0884333.  
 PR PR 14-MAY-1992; 92US-0884422.  
 PR PR 14-MAY-1992; 92US-0884431.  
 PR PR 14-MAY-1992; 92US-0884436.  
 PR PR 31-JUL-1992; 92US-0223738.  
 PR PR 26-AUG-1992; 92US-033086.  
 PR PR 18-SEP-1992; 92US-0348339.  
 PR PR 15-OCT-1992; 92US-0563322.  
 PR PR 07-DEC-1992; 92US-0887129.  
 PR PR 07-DEC-1992; 92US-0887130.  
 PR PR 07-DEC-1992; 92US-0887133.  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX PI Draper KG, Dudyocz LW, Holecek JJ, Macejaj DG, Mamine JA;  
 PI MCSwiggan JA;  
 XX DR WPI; 1993-386599/48.  
 XX PT Enzymatic RNA molecules - used to inhibit viral replication, infection and gene expression.  
 XX PS Claim 5; Fig 13; 28pp; English.  
 XX The sequences (AAQ52863-052890) are pref. Cytomegalovirus target sequences for enzymatic RNA molecules. The RNA molecules are complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERMs interfere with viral replication and therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines.  
 XX Sequence 22 BP; 5 A; 4 C; 10 G; 3 U; 0 other;

Alignment Scores:





US-09-698-781-3 (1-258) x ABQ05287 (1-24)

QY 203 ProCysAlaSerCysPro 208  
 |||||||  
 Db 20 CCGTGCCTCATGCT 3

RESULT 15

ABQ11574  
 ID ABQ11574 standard; DNA; 24 BP.  
 XX  
 AC ABQ11574;  
 XX  
 DT 11-JUN-2002 (first entry)  
 XX  
 DE Oligonucleotide adapter/capture probe 11606.  
 XX  
 KW Oligonucleotide array; adapter sequence; probe; ss.  
 XX  
 OS Synthetic.

XX  
 PN WO200216649-A2.

XX  
 PD 28-FEB-2002.

XX  
 PR 27-AUG-2001; 2001WO-US26519.

XX  
 PR 25-AUG-2000; 2000US-227948P.  
 XX  
 PR 29-AUG-2000; 2000US-228854P.

XX  
 PA (ILU-) ILLUMINA INC.

PI Gunderson K;  
 XX  
 DR WPI: 2002-292068/33.

XX  
 PT Array comprising adapter sequences useful for immobilizing or detecting  
 PT a target nucleic acid sequence, has different addresses comprising  
 PT different specific capture probes -

RS Claim 1; Page 232; 261pp; English.

XX  
 CC The invention relates to an oligonucleotide array (1) comprising at least  
 CC 25 different addresses (adapter sequences) with each comprising a  
 CC different capture probe selected from a group consisting of the sequences  
 CC given in ABQ00010-ABQ13409. (1) is useful for immobilising a target  
 CC (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target  
 CC nucleic acid and contacting the modified target nucleic acid with (1).  
 CC The steps of above method is useful for detecting a target nucleic acid,  
 CC which further comprises detecting the presence of the modified target  
 CC nucleic acid.

XX  
 SQ Sequence 24 BP; 7 A; 5 C; 9 G; 3 T; 0 other;

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
756	6.00	24	6	0	0	0	0
6	100.00%	6	6	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
24	2.33%	24	24	0	0	0	0
0	0	0	0	0	0	0	0

DB: ABQ11615

US-09-698-781-3 (1-258) x ABQ11615 (1-24)

QY 203 ProCysAlaSerCysPro 208  
 |||||||  
 Db 20 CCGTGCCTCATGCT 3

RESULT 17

AAV53748/C  
 ID AAV53748 standard; DNA; 25 BP.  
 XX  
 AC AAV53748;  
 XX  
 DT 20-NOV-1998 (first entry)  
 XX  
 DE Nucleotide sequence of the linkage analysis PCR primer 10.  
 XX  
 KW PCR; primer; amplification; linkage analysis; genetic marker; ss.  
 KW progressive rod-cone degeneration disease trait; canine; chromosome 9.  
 XX  
 OS Synthetic.

XX  
 OS Canis sp.

PN US5804388-A.  
 XX  
 PD 08-SEP-1998.  
 XX  
 PR 30-JAN-2001; 2001WO-US00663.  
 PR 30-JAN-2001; 2001WO-US00664.  
 PR 30-JAN-2001; 2001WO-US00665.  
 PR 30-JAN-2001; 2001WO-US00666.  
 PR 30-JAN-2001; 2001WO-US00667.  
 PR 30-JAN-2001; 2001WO-US00668.  
 PR 30-JAN-2001; 2001WO-US00669.  
 PR 30-JAN-2001; 2001WO-US00671.  
 PR 23-MAY-2001; 2001US-0854761.  
 PR 28-AUG-2001; 2001US-315676P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Acland G, Aguirre G, Ray K;  
 XX  
 DR WPI; 1998-505644/43.  
 XX  
 PT Detection of canine genetic markers - linked with progressive  
 PT rod-cone degeneration disease  
 XX  
 PS Claim 10: Column 23; 25pp; English.  
 CC This is the nucleotide sequence of a PCR primer used for linkage  
 CC analysis in the method of the invention. This involves the detection  
 CC of genetic markers that are genetically linked and co-segregating with  
 CC a progressive rod-cone degeneration disease trait in canine comprises  
 CC analysing chromosome 9 for polymorphisms in the pre-informative region.  
 CC The method is used to determine whether a dog has a mutated progressive  
 CC rod-cone degeneration disease gene locus in one or both alleles.  
 CC Polymorphism is analysed by using primers in a nucleic acid  
 CC amplification reaction containing chromosome 9 to obtain an amplified  
 CC product.  
 SQ Sequence 25 BP; 7 A; 7 C; 5 G; 6 T; 0 other;  
 Alignment Scores:  
 Pred. No.: 785 Length: 25  
 Score: 6.00 Matches: 6  
 percent similarity: 100.0% Conservative: 0  
 best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 19 Gaps: 0  
 US-09-698-781-3 (1-258) x AAY53748 (1-25)  
 Oy 195 TyrValProTyrGluGln 200  
 ||||||| ||||| |||||  
 AC 22 TATGTGCCTTANGACCAA 5  
 DB  
 RESULT 18  
 ABQ64866  
 ID ABQ64866 standard; DNA; 25 BP.  
 XX  
 AC ABQ64866;  
 XX  
 DT 20-AUG-2002 (first entry)  
 XX  
 DE Human KROMA portion (ABQ63322) probe # 1579.  
 KW Human; KROMA; KROMI; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss;  
 XX  
 OS Homo sapiens.  
 XX  
 WO200224750-A2.  
 XX  
 28-MAR-2002.  
 XX  
 DE Human KROMA portion (ABQ63322) probe # 1580.  
 KW Human; KROMA; KROMI; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss;  
 XX  
 OS Homo sapiens.  
 XX  
 WO200224750-A2.  
 XX  
 28-MAR-2002.  
 XX  
 PR 21-SEP-2000; 2000US-23487P.  
 PR 27-SEP-2000; 2000US-23635P.  
 PR 04-OCT-2000; 2000GB-0021263.  
 PR 30-JAN-2001; 2001WO-US00661.  
 XX  
 PR 2002-479509/51.  
 XX  
 PT New human kidney tumor overexpressed membrane (KROMI) protein and  
 PT nucleic acids encoding the protein, useful for treating subjects having  
 PT defects in KROMI which can manifest as cancer of the kidney, or as a  
 disorder of e.g., liver or bone -  
 XX  
 PS Example 2: Page 364; 418pp; English.  
 CC The invention relates to a novel isolated nucleic acid encoding human  
 CC KROMI (kidney tumor overexpressed membrane) protein. The protein of the  
 CC invention has cytostatic activity. The nucleotide may have a use in gene  
 CC therapy. The KROMI nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KROMI.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KROMI which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to  
 CC scan the nt 1-1001 portion of human KROMI (AB063232).  
 XX  
 SQ Sequence 25 BP; 3 A; 9 C; 5 G; 8 T; 0 other;  
 Alignment Scores:  
 Pred. No.: 785 Length: 25  
 Score: 6.00 Matches: 6  
 percent similarity: 100.0% Conservative: 0  
 best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 24 Gaps: 0  
 US-09-698-781-3 (1-258) x ABQ64866 (1-25)  
 Oy 202 AlpProCysAlaSarcys 207  
 ||||||| ||||| |||||  
 DB 8 GCTTCCCCTGGCCCTTG 25  
 DT  
 RESULT 19  
 ABQ64867  
 ID ABQ64867 standard; DNA; 25 BP.  
 XX  
 AC ABQ64867;  
 XX  
 DT 20-AUG-2002 (first entry)  
 XX  
 DE Human KROMA portion (ABQ63322) probe # 1580.  
 KW Human; KROMA; KROMI; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss;  
 XX  
 OS Homo sapiens.  
 XX  
 WO200224750-A2.  
 XX  
 28-MAR-2002.  
 XX  
 PR 21-SEP-2001; 2001WO-US20656.  
 PR 27-SEP-2000; 2000US-23487P.  
 PR 04-OCT-2000; 2000GB-0021263.  
 PR 30-JAN-2001; 2001WO-US00661.  
 XX  
 PR 30-JAN-2001; 2001WO-US00663.  
 PR 30-JAN-2001; 2001WO-US00664.  
 PR 30-JAN-2001; 2001WO-US00665.  
 PR 30-JAN-2001; 2001WO-US00666.  
 PR 30-JAN-2001; 2001WO-US00667.  
 PR 30-JAN-2001; 2001WO-US00668.  
 PR 30-JAN-2001; 2001WO-US00669.  
 PR 30-JAN-2001; 2001WO-US00671.  
 PR 23-MAY-2001; 2001US-0854761.  
 PR 28-AUG-2001; 2001US-315676P.  
 XX  
 PA (AEOM- ) AEOMICA INC.  
 XX  
 PI Zhang J;  
 XX  
 DR WPI; 2002-479509/51.

PF 21-SEP-2001; 2001WO-US29656.  
 XX  
 PR 21-SEP-2000; 2000US-234687P.  
 PR 27-SEP-2000; 2000US-236359P.  
 PR 04-OCT-2000; 2000GB-0024263.  
 PR 30-JAN-2001; 2001WO-US00661.  
 PR 30-JAN-2001; 2001WO-US00662.  
 PR 30-JAN-2001; 2001WO-US00663.  
 PR 30-JAN-2001; 2001WO-US00664.  
 PR 30-JAN-2001; 2001WO-US00665.  
 PR 30-JAN-2001; 2001WO-US00666.  
 PR 30-JAN-2001; 2001WO-US00667.  
 PR 30-JAN-2001; 2001WO-US00668.  
 PR 30-JAN-2001; 2001WO-US00669.  
 PR 30-JAN-2001; 2001WO-US00670.  
 PR 23-MAY-2001; 2001US-0864761.  
 PR 28-AUG-2001; 2001US-315676P.  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PT Zhang J;  
 XX  
 DR WPI; 2002-479509/51.  
 XX  
 PT New human kidney tumor overexpressed membrane (KTM1) protein and  
 PT nucleic acids encoding the protein, useful for treating subjects having  
 PT defects in KTM1 which can manifest as cancer of the kidney, or as a  
 disorder of e.g., liver or bone.  
 XX  
 PS Example 2; Page 364; 418pp; English.  
 XX  
 CC The invention relates to a novel isolated nucleic acid encoding human  
 CC KTM1 (Kidney tumour overexpressed membrane) protein. The protein of the  
 CC invention has cytotoxic activity. The nucleotide may have a use in gene  
 CC therapy. The KTM1 nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KTM1.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KTM1 which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to  
 CC scan the nt 1-1001 portion of human KTM1 (AB063232).  
 XX Sequence 25 BP; 3 A; 10 C; 5 G; 7 T; 0 other;  
 DB Alignment Scores:  
 Pred. No.: 785 Length: 25  
 Score: 6.00 Matches: 6  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB Gaps: 0  
 US-09-698-781-3 (1-258) x ABQ64867 (1-25)  
 OY 202 AlaprocyalaserCys 207  
 DB 7 GCTCCCTCGCCCTCTGT 24  
 RESULT 20  
 ABQ64868  
 ID ABQ64868 standard; DNA; 25 BP.  
 XX  
 AC ABQ64868;  
 XX  
 DT 20-AUG-2002 (first entry)  
 XX  
 DE Human KTM1a portion (ABQ63232) probe # 1581.  
 XX Human; KTM1; kidney tumor overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.  
 XX  
 OS Homo sapiens.  
 XX WO200224750-A2.  
 PN  
 XX  
 PD 28-MAR-2002.  
 PF 21-SEP-2001; 2001WO-US29656.  
 PR 21-SEP-2000; 2000US-234687P.  
 PR 27-SEP-2000; 2000US-236359P.  
 PR 04-OCT-2000; 2000GB-0024263.  
 PR 30-JAN-2001; 2001WO-US00661.  
 PR 30-JAN-2001; 2001WO-US00662.  
 PR 30-JAN-2001; 2001WO-US00663.  
 PR 30-JAN-2001; 2001WO-US00664.  
 PR 30-JAN-2001; 2001WO-US00665.  
 PR 30-JAN-2001; 2001WO-US00666.  
 PR 30-JAN-2001; 2001WO-US00667.  
 PR 30-JAN-2001; 2001WO-US00668.  
 PR 30-JAN-2001; 2001WO-US00669.  
 PR 30-JAN-2001; 2001WO-US00670.  
 PR 23-MAY-2001; 2001US-0864761.  
 PR 28-AUG-2001; 2001US-315676P.  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PT Zhang J;  
 XX  
 DR WPI; 2002-479509/51.  
 XX  
 PT New human kidney tumor overexpressed membrane (KTM1) protein and  
 PT nucleic acids encoding the protein, useful for treating subjects having  
 PT defects in KTM1 which can manifest as cancer of the kidney, or as a  
 disorder of e.g., liver or bone.  
 XX  
 PS Example 2; Page 365; 418pp; English.  
 XX  
 CC The invention relates to a novel isolated nucleic acid encoding human  
 CC KTM1 (kidney tumour overexpressed membrane) protein. The protein of the  
 CC invention has cytotoxic activity. The nucleotide may have a use in gene  
 CC therapy. The KTM1 nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KTM1.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KTM1 which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to  
 CC scan the nt 1-1001 portion of human KTM1 (AB063232).  
 XX Sequence 25 BP; 4 A; 10 C; 5 G; 6 T; 0 other;  
 DB Alignment Scores:  
 Pred. No.: 785 Length: 25  
 Score: 6.00 Matches: 6  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB Gaps: 0  
 US-09-698-781-3 (1-258) x ABQ64868 (1-25)  
 OY 202 AlaprocyalaserCys 207  
 DB 6 GCTCCCTCGCCCTCTGT 23  
 RESULT 21  
 ABQ64869  
 ID ABQ64869 standard; DNA; 25 BP.  
 XX  
 AC ABQ64869;  
 XX  
 DT 20-AUG-2002 (first entry)

DE Human KtOM1 portion (ABQ63232) probe # 1582.

XX Human; KtOM1; kidney tumour overexpressed membrane; cytostatic; gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung; kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.

XX Homo sapiens.

OS WO200224750-A2.

XX 28-MAR-2002.

XX PR 21-SEP-2001; 2001WO-US29656.

XX PR 21-SEP-2000; 2000US-234687P.

PR 27-SEP-2000; 2000US-236359P.

PR 04-OCT-2000; 2000GB-0024263.

PR 30-JAN-2001; 2001WO-US00661.

PR 30-JAN-2001; 2001WO-US00662.

PR 30-JAN-2001; 2001WO-US00663.

PR 30-JAN-2001; 2001WO-US00664.

PR 30-JAN-2001; 2001WO-US00665.

PR 30-JAN-2001; 2001WO-US00666.

PR 30-JAN-2001; 2001WO-US00667.

PR 30-JAN-2001; 2001WO-US00668.

PR 30-JAN-2001; 2001WO-US00669.

PR 30-JAN-2001; 2001WO-US00670.

PR 23-MAY-2001; 2001US-0864761.

PR 28-AUG-2001; 2001US-315676P.

XX PA (AEOM-) AEOMICA INC.

PT Zhang J;

XX DR WPI; 2002-479509/51.

XX PS Example 2; Page 365; 418pp; English.

CC New human kidney tumor overexpressed membrane (KtOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KtOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone

XX PS Example 2; Page 365; 418pp; English.

CC New human kidney tumor overexpressed membrane (KtOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KtOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone

XX PS Example 2; Page 365; 418pp; English.

CC The invention relates to a novel isolated nucleic acid encoding human KtOM1 (kidney tumour overexpressed membrane) protein. The protein of the invention has cytostatic activity. The nucleotide may have a use in gene therapy. The KtOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KtOM1.

CC Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in KtOM1 which can manifest as cancer of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan the nt 1-1001 portion of human KtOM1 (ABQ63232).

XX Sequence 25 BP; 3 A; 10 C; 6 G; 6 T; 0 other;

Alignment Scores:

Pred. No.: 785 Length: 25.

Score: 6.00 Matches: 6

Percent Similarity: 100.00% Conservatve: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 2.33% Indels: 0

DB: 0 Gaps: 0

US-09-698-781-3 (1-258) x ABQ64869 (1-25)

Qy 202 AlaprocyclaserCcs 207

Db 5 GCTCCCTGGCCCTCTGT 22

RESULT 22

ID ABQ64870 standard; DNA; 25 BP.

XX AC ABQ64870;

XX DT 20-AUG-2002 (first entry)

XX DE Human KtOM1 portion (ABQ63232) probe # 1583.

XX Homo sapiens.

OS WO200224750-A2.

XX 28-MAR-2002.

XX PR 21-SEP-2001; 2001WO-US29656.

XX PR 21-SEP-2000; 2000US-234687P.

PR 27-SEP-2000; 2000US-236359P.

PR 04-OCT-2000; 2000GB-0024263.

PR 30-JAN-2001; 2001WO-US00661.

PR 30-JAN-2001; 2001WO-US00662.

PR 30-JAN-2001; 2001WO-US00663.

PR 30-JAN-2001; 2001WO-US00664.

PR 30-JAN-2001; 2001WO-US00665.

PR 30-JAN-2001; 2001WO-US00666.

PR 30-JAN-2001; 2001WO-US00667.

PR 30-JAN-2001; 2001WO-US00668.

PR 30-JAN-2001; 2001WO-US00669.

PR 30-JAN-2001; 2001WO-US00670.

PR 23-MAY-2001; 2001US-0864761.

PR 28-AUG-2001; 2001US-315676P.

XX PA (AEOM-) AEOMICA INC.

PT Zhang J;

XX DR WPI; 2002-479509/51.

XX PS Example 2; Page 365; 418pp; English.

CC The invention relates to a novel isolated nucleic acid encoding human KtOM1 (kidney tumour overexpressed membrane) protein. The protein of the invention has cytostatic activity. The nucleotide may have a use in gene therapy. The KtOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KtOM1.

CC Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in KtOM1 which can manifest as cancer of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan the nt 1-1001 portion of human KtOM1 (ABQ63232).

XX Sequence 25 BP; 3 A; 11 C; 5 G; 6 T; 0 other;

Alignment Scores:

Pred. No.: 785 Length: 25

Score: 6.00 Matches: 6

Percent Similarity: 100.00% Conservatve: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 2.33% Indels: 0

DB: 24 Gaps: 0

US-09-698-781-3 (1-258) x ABQ64870 (1-25)

ABQ64870

QY	202	AlaProCysAlaSerCys	207	Best Local Similarity: 100.00%	Mismatches: 0
DB	4			Query Match: 2.33%	Indels: 0
DB:		GCTGCCGCGCCCTCTGT	21	DB: 24	Gaps: 0
RESULT	23			US-09-698-781-3 (1-258) x ABQ64871 (1-25)	
ID	ABQ64871	standard; DNA; 25 BP.			
XX					
AC	ABQ64871;				
XX					
DT	20-AUG-2002	(first entry)			
XX					
DE	Human kTOM1a portion (ABQ63232) probe # 1584.				
XX					
KW	Human; kTOM1a; kTOM1; kidney; tumour; overexpressed; membrane; cytostatic; gene; therapy; cancer; kidney; liver; bone marrow; brain; heart; lung; kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.				
XX					
OS	Homo sapiens.				
XX					
PN	WO200224750-A2.				
XX					
PD	28-MAR-2002.				
XX					
PF	21-SEP-2001; 2001WO-US29656.				
XX					
PR	21-SEP-2000; 2000US-234687P.				
PR	27-SEP-2000; 2000US-234359P.				
PR	04-OCT-2000; 2000GB-0024263.				
PR	30-JAN-2001; 2001WO-US00661.				
PR	30-JAN-2001; 2001WO-US00662.				
PR	30-JAN-2001; 2001WO-US00663.				
PR	30-JAN-2001; 2001WO-US00664.				
PR	30-JAN-2001; 2001WO-US00665.				
PR	30-JAN-2001; 2001WO-US00666.				
PR	30-JAN-2001; 2001WO-US00667.				
PR	30-JAN-2001; 2001WO-US00668.				
PR	30-JAN-2001; 2001WO-US00669.				
PR	30-JAN-2001; 2001WO-US00670.				
PR	23-MAY-2001; 2001US-0864761.				
PR	28-AUG-2001; 2001US-315676P.				
XX					
PA	(AEOM-) AEOMICA INC.				
XX					
PT	Zhang J;				
XX					
DR	WPI; 2002-479509/51.				
XX					
PT	New human kidney tumor overexpressed membrane (kTOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in kTOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone.				
XX					
PS	Example 2; Page 365; 410pp; English.				
CC	The invention relates to a novel isolated nucleic acid encoding human kTOM1 (kidney tumour overexpressed membrane) protein. The protein of the invention has cytostatic activity. The nucleotide may have a use in gene therapy. The kTOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human kTOM1.				
CC	Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in kTOM1 which can manifest as a disorder of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan the nt 1-1001 portion of human kTOM1 (ABQ63232).				
XX	Sequence 25 BP; 2 A; 11 C; 5 G; 7 T; 0 other;				
SQ					
Pred. No.:	785	Length: 25			
Score:	6.00	Matches: 6			
Percent Similarity:	100.00%	Conservative: 0			

Alignment Scores: 785 Length: 25  
Pred. No.: 6.00 Matches: 6  
Score: 100.00% Conservative: 0  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 2.33% Gaps: 0

DB: 24 SQ sequence 25 BP; 1 A; 11 C; 5 G; 8 T; 0 other;

US-09-698-781-3 (1-258) x ABO64872 (1-25)

QY 202 AIAProcyalsAsercys 207  
DB 2 GTCGCCGCGCTCTGT 19

RESULT 25  
ABO64873 ID ABO64873 standard; DNA; 25 BP.  
XX AC ABO64873;  
XX DT 20-AUG-2002 (first entry)  
XX Human KTM1a portion (ABO63232) probe # 1586.  
XX KW Human; KTM1a; kidney; tumour overexpressed membrane; cytostatic; gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung; kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss. Homo sapiens.  
XX OS WO200224750-A2.  
XX PD 28-MAR-2002.  
XX PR 21-SEP-2001; 2001WO-US29655.  
XX PR 21-SEP-2000; 2000US-234687P.  
XX PR 27-SEP-2000; 2000US-234359P.  
XX PR 04-OCT-2000; 2000GB-0024253.  
XX PR 30-JAN-2001; 2001WO-US00661.  
XX PR 30-JAN-2001; 2001WO-US00662.  
XX PR 30-JAN-2001; 2001WO-US00663.  
XX PR 30-JAN-2001; 2001WO-US00664.  
XX PR 30-JAN-2001; 2001WO-US00665.  
XX PR 30-JAN-2001; 2001WO-US00666.  
XX PR 30-JAN-2001; 2001WO-US00667.  
XX PR 30-JAN-2001; 2001WO-US00668.  
XX PR 30-JAN-2001; 2001WO-US00669.  
XX PR 30-JAN-2001; 2001WO-US00670.  
XX PR 23-MAY-2001; 2001US-086476P.  
XX PR 28-AUG-2001; 2001US-315676P.

PA (AEOM-) AEOMICA INC.  
XX DR WPI; 2002-292068/33.

PI Zhang J;  
XX WPI; 2002-479509/51.

XX The invention relates to a novel isolated nucleic acid encoding human KTM1 (Kidney tumour overexpressed membrane) protein. The protein of the invention has cytosolic activity. The nucleotide may have a use in gene therapy. The KTM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KTM1. Compositions comprising the nucleic acids, proteins or antibodies may be

Alignment Scores: 785 Length: 25  
Pred. No.: 6.00 Matches: 6  
Score: 100.00% Conservative: 0  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 2.33% Gaps: 0

DB: 24 SQ sequence 25 BP; 1 A; 11 C; 5 G; 8 T; 0 other;

US-09-698-781-3 (1-258) x ABO64873 (1-25)

QY 202 AIAProcyalsAsercys 207  
DB 1 GCTGCCGCGCTCTGT 18

RESULT 26  
ABQ13110 ID ABQ13110 standard; DNA; 25 BP.  
XX AC ABQ13110;  
XX DT 11-JUN-2002 (first entry)  
XX DE Oligonucleotide adapter/capture probe 13110.  
XX KW Oligonucleotide array; adapter sequence; probe; ss.  
XX OS Synthetic.  
XX PN WO200216649-A2.  
XX PD 28-FEB-2002.  
XX PR 27-AUG-2001; 2001WO-US26519.  
XX PR 25-AUG-2000; 2000US-227748P.  
XX PR 29-AUG-2000; 2000US-228854P.  
XX PA (ILLU-) ILLUMINA INC.  
XX PR Gundersen K;  
XX DR WPI; 2002-292068/33.

XX Array comprising adapter sequences useful for immobilizing or detecting a target nucleic acid sequence, has different addresses comprising different specific capture probes

XX PS Claim 1; Page 251; 261PP; English.

XX The invention relates to an oligonucleotide array (I) comprising at least 25 different addresses (adapter sequences) with each comprising a different capture probe selected from a group consisting of the sequences given in ABQ00010-ABQ13409. (I) is useful for immobilising a target nucleic acid sequence by attaching a adapter nucleic acid (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target nucleic acid and contacting the modified target nucleic acid with (I). The steps of above method is useful for detecting a target nucleic acid, which further comprises detecting the presence of the modified target nucleic acid.

XX SQ Sequence 25 BP; 3 A; 9 C; 5 G; 8 T; 0 other;

XX Alignment Scores: 785 Length: 25  
Pred. No.: 6.00 Matches: 6

Percent Similarity: 100.00%保守型: 0  
 Best Local Similarity: 100.00%错配: 0  
 Query Match: 2.33%插入: 0  
 DB: 24 缺口: 0

US-09-698-781-3 (1-258) x ABQ13110 (1-25)

QY 203 ProCysAlaSerCysPro 208  
 ID 6 CCGTGCGCTTCATGRCCT 23

RESULT 27  
 ABQ13151/C  
 ID ABQ13151 standard; DNA; 25 BP.  
 XX  
 AC ABQ13151;  
 XX  
 DT 11-JUN-2002 (first entry)  
 XX  
 DE Oligonucleotide adapter/capture probe 13142.  
 XX  
 KW Oligonucleotide array; adapter sequence; probe; ss.  
 OS Synthetic.  
 XX  
 PN WO200216649-A2.  
 XX  
 PD 28-FEB-2002.  
 XX  
 PF 27-AUG-2001; 2001WO-US26519.  
 XX  
 PR 25-AUG-2000; 2000US-227948P.  
 PR 29-AUG-2000; 2000US-228854P.  
 XX  
 PA (ILLU-) ILLUMINA INC.  
 XX  
 PI Gunderson K;  
 XX  
 DR WPI; 2002-292068/33.

XX  
 PT Array comprising adapter sequences useful for immobilizing or detecting  
 PT a target nucleic acid sequence, has different addresses comprising  
 PT different specific capture probes  
 XX  
 PS Claim 1; Page 251; 261pp; English.  
 XX  
 CC The invention relates to an oligonucleotide array (1) comprising at least  
 CC 25 different addresses (adapter sequences) with each comprising a  
 CC different capture probe selected from a group consisting of the sequences  
 CC given in ABQ0010-ABQ13409. (1) is useful for immobilising a target  
 CC nucleic acid sequence by attaching a adapter nucleic acid  
 CC (ABQ0010-ABQ13409) to a target nucleic acid to form a modified target  
 CC nucleic acid and contracting the modified target nucleic acid with (1).  
 CC The steps of above method is useful for detecting a target nucleic acid,  
 CC which further comprises detecting the presence of the modified target  
 CC nucleic acid.  
 XX  
 SQ Sequence 25 BP; 7 A; 5 C; 9 G; 4 T; 0 other;

Alignment Scores:  
 Pred. No.: 785 Length: 25  
 Score: 6.00 Matches: 6  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 2.33% Indels: 0  
 DB: 24 Gaps: 0  
 XX  
 US-09-698-781-3 (1-258) x ABQ13151 (1-25)

QY 27 LeuLeuProSerPhePro 32  
 ID 4 CTGCTGCCTCTTTCGA 21

RESULT 29  
 ABT8466/C  
 ID ABT84966 standard; DNA; 27 BP.  
 XX  
 AC ABT84966;  
 XX  
 DT 01-APR-1998 (first entry)  
 XX  
 DE PCR primer 3' used to amplify arginase II from a cDNA library.  
 XX  
 KW Arginase II; proline production; glutamate production; hyperargininaemia;  
 KW nitric oxide biosynthesis; arginase activity; urea cycle disease;  
 KW hypertension; hypotension; hyperammonaemia; prostate disease;

**KW** PCR primer; ss.  
**XX**  
**OS** Synthetic.  
**XX**  
**PN** WO9733985-A1.  
**XX**  
**PD** 18-SEP-1997.  
**XX**  
**PF** 14-MAR-1996; 96WO-US03561.  
**XX**  
**PR** 14-MAR-1996; 96WO-US03561.  
**XX**  
**PA** (HUMA-) HUMAN GENOME SCI INC.  
**PA** (SMIK) SMITHKLINE BECHAM CORP.  
**XX**  
**PT** Dillon PJ, Vockley JG;  
**XX**  
**DR** WPI; 1997-470867/43.  
**XX**  
**PT** Polynucleotide encoding human arginase II - useful to treat, diagnose and monitor, e.g. urea cycle disorders, prostatic disease, hypertension and nitric oxide mediated immune and nervous diseases  
**PS** Example 1: Fig 3; 85pp; English.  
**XX**  
**CC** PCR Primers AAT84962-74 were used to amplify human arginase II from a Jurkat cell line cDNA library. The cDNA sequence of Arginase I was used as a probe sequence for a computer search of cDNA databases. Several expressed sequence tags with 50-60% sequence homology were identified. These were combined to give a 1075 bp sequence. The above PCR primers were designed to the extreme 3' and 5' ends of the consensus sequence, and used to isolate arginase II. In addition to a hypothetical role in the production of proline and glutamate, it is postulated that the arginase II may play an important role in nitric oxide biosynthesis through the production of ornithine as a precursor of glutamate. Arginase II, or its agonists, antagonists and fragments, are used to treat conditions associated with lack of arginase activity. Compounds that inhibit activation of the protein are used to treat conditions associated with excess arginase activity. Typical conditions that can be treated are diseases of the urea cycle, hypertension, hypotension, (caused by sepsis or cytokines), episodic hyperammonemia, defective synthesis of proline, glutamate, nitric oxide or ornithine, hyperargininemia and related spasticity, prostate disease (e.g. cancer, prostatitis and benign hypertrophy), prostate or kidney damage, also nitric oxide associated immune and nervous system diseases. The arginase II cDNA is used to produce recombinant protein and for chromosome identification, while its fragments are used (as primers and probes) to detect arginase II-encoding sequences and to diagnose the above diseases.  
**XX**  
**SQ** Sequence 27 BP; 6 A; 3 C; 11 G; 7 T; 0 other;  
**Alignment Scores:**  
**Pred. No.:** 843  
**Score:** 6.00  
**Percent Similarity:** 100.00%  
**Best Local Similarity:** 100.00%  
**Query Match:** 2.33%  
**DB:** 18  
**Gaps:** 0  
**Length:** 27  
**Matches:** 6  
**Conservative:** 0  
**Mismatches:** 0  
**Indels:** 0  
**XX**  
**US-09-698-781-3 (1-258) x AAT84966 (1-27)**  
**Oy** 42 ThrlAlaLeuLeuThrThr 47  
**XX**  
**Db** 20 ACAGCTCTGCCTAACCC 3  
**RESULT 30**  
**AAV0582/c**  
**ID** AAV0582 standard; cDNA; 27 BP.  
**AC** AAV0582;  
**XX**  
**DT** 25-MAR-1998 (first entry)  
  
**XX**  
**DE** PCR primer 3F used to amplify arginase II from a cDNA library.  
**XX**  
**KW** Arginase II; proline production; glutamate production; hyperargininemia; nitric oxide biosynthesis; arginase activity; urea cycle disease; hypertension; hypotension; hyperammonemia; prostate disease;  
**KW** PCR primer; ss.  
**XX**  
**OS** Synthetic.  
**XX**  
**PN** WO9733986-A1.  
**XX**  
**PD** 18-SEP-1997.  
**XX**  
**PF** 20-AUG-1996; 96WO-US13455.  
**XX**  
**PR** 14-MAR-1996; 96WO-US03561.  
**XX**  
**PA** (HUMA-) HUMAN GENOME SCI INC.  
**PA** (SMIK) SMITHKLINE BECHAM CORP.  
**XX**  
**PT** Dillon PJ, Vockley JG;  
**XX**  
**DR** WPI; 1997-470868/43.  
**XX**  
**PT** Nucleic acid encoding human arginase II - useful for treating, diagnosing and monitoring e.g. urea cycle disorders, hypertension, nitric oxide-mediated immune and nervous diseases, etc  
**XX**  
**PS** Example 1: Fig 3; 93pp; English.  
**XX**  
**CC** PCR Primers AAV0578-90 were used to amplify human arginase II from a Jurkat cell line cDNA library. The cDNA sequence of arginase I was used as a probe sequence for a computer search of cDNA databases. Several expressed sequence tags with 50-60% sequence homology were identified. These were combined to give a 1075 bp sequence. The above PCR primers were designed to the extreme 3' and 5' ends of the consensus sequence, and used to isolate arginase II. In addition to a hypothetical role in the production of proline and glutamate, it is postulated that the arginase II may play an important role in nitric oxide biosynthesis through the production of ornithine as a precursor of glutamate. Arginase II, or its agonists, antagonists and fragments, are used to treat conditions associated with lack of arginase activity. Compounds that inhibit activation of the protein are used to treat conditions associated with excess arginase II. Typical conditions that can be treated are diseases of the urea cycle, hypertension, hypotension, (caused by sepsis or cytokines), episodic hyperammonemia, defective synthesis of proline, glutamate, nitric oxide or ornithine, hyperargininemia and related spasticity, prostate disease (e.g. cancer, prostatitis and benign hypertrophy), prostate or kidney damage, also nitric oxide associated immune and nervous system diseases. The arginase II cDNA is used to produce recombinant protein and for chromosome identification, while its fragments are used (as primers and probes) to detect arginase II-encoding sequences and to diagnose the above diseases.  
**XX**  
**SQ** Sequence 27 BP; 6 A; 3 C; 11 G; 7 T; 0 other;  
**Alignment Scores:**  
**Pred. No.:** 843  
**Score:** 6.00  
**Percent Similarity:** 100.00%  
**Best Local Similarity:** 100.00%  
**Query Match:** 2.33%  
**DB:** 18  
**Gaps:** 0  
**Length:** 27  
**Matches:** 6  
**Conservative:** 0  
**Mismatches:** 0  
**Indels:** 0  
**XX**  
**US-09-698-781-3 (1-258) x AAV0582 (1-27)**  
**Oy** 42 ThrlAlaLeuLeuThrThr 47  
**XX**  
**Db** 20 ACAGCTCTGCCTAACCC 3

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Job time : 260 secs